

What is claimed:

1. A system for texturing an interior surface comprising:
 - a container assembly containing texture material and a propellant material, where the texture material is a hardenable material comprising particles and the propellant material is a compressed inert gas;
 - a valve assembly mounted on the container assembly, where the valve assembly is operable in an open configuration in which texture material is allowed to flow out of the container assembly along a dispensing path and a closed configuration in which texture material cannot flow out of the container assembly along the dispensing path;
 - an outlet assembly mounted on the valve assembly through which the texture material flowing out of the container assembly passes as the texture material is dispensed from the system, where movement of an outlet member of the outlet assembly in a first direction places the valve assembly into the open configuration and movement of the outlet assembly in a second direction opposite the first direction places the valve assembly into the closed configuration; and
- metering means comprising
 - a metering member operable in first and second configurations; and
 - a release member; whereby
 - when the metering member is in the first configuration, the metering member engages an actuator member such that displacement of the actuator member in the first direction displaces the outlet assembly in the first direction; and
 - when the metering member reaches a release point, the release member places the metering member in the

second configuration to disengage the metering member from the actuator member to allow the outlet assembly to move in the second direction.

5 2. A system as recited in claim 1, further comprising an actuator spring arranged to oppose movement of the actuator member in the first direction.

10 3. A system as recited in claim 1, further comprising a valve spring arranged to oppose movement of the outlet assembly in the first direction.

15 4. A system as recited in claim 1, further comprising:
a first spring member arranged to oppose movement of the actuator member in the first direction; and
a second spring member arranged to oppose movement of the outlet assembly in the first direction.

20 5. A system as recited in claim 1, in which the valve assembly comprises:
a valve seat mounted on the container assembly; and
a valve stem fixed to the outlet assembly; whereby
the valve stem engages the valve seat to place the valve assembly in the closed configuration; and
25 movement of the outlet assembly in the first direction causes
the valve stem to disengage from the valve seat to
place the valve assembly in the open configuration.

30 6. A system as recited in claim 5, in which the valve assembly further comprises a valve spring arranged to oppose movement of the valve stem in the first direction.

7. A system as recited in claim 6, further comprising an actuator spring arranged to oppose movement of the actuator member in the first direction.

5 8. A system as recited in claim 1, in which the metering member comprises at least one metering projection having a normal configuration and a deformed configuration, where the metering member is in the first configuration when the at least one metering projection is in the normal configuration and is in the
10 second configuration when the at least one metering projection is in the deformed configuration.

9. A system as recited in claim 8, in which the at least one metering member extends outwardly in the normal configuration.
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10. A system as recited in claim 9, in which the release member forces the at least one metering projection inwardly to place the at least one metering projection in the deformed configuration.
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11. A system as recited in claim 8, in which metering member comprises a plurality of metering projections.

25 12. A system as recited in claim 8, in which an actuator surface is formed on the actuator member, where the at least one metering projection can engage the actuator surface when the at least one metering projection is in the normal configuration.

30 13. A system as recited in claim 12, in which the at least one metering member cannot engage the actuator surface when the at least one metering projection is in the deformed

configuration.

14. A system as recited in claim 8, in which:
the system defines an axis;
5 the actuator member defines an actuator surface a first
distance from the axis;
at least a portion of the at least one metering projection is
the first distance from the axis when the metering
projection is in the normal configuration; and
10 the metering projection is at most a second distance from
the axis when the metering projection is in the
deformed configuration, where the second distance is
less than the first distance.
- 15 15. A system as recited in claim 1, in which:
the system defines an axis; and
the outlet assembly, actuator member, metering member,
and release member are substantially symmetrically
arranged about the axis.
- 20 16. A system as recited in claim 4, in which:
the system defines an axis; and
the outlet assembly, actuator member, metering member,
release member, and first and second spring
25 members are substantially symmetrically arranged
about the axis.
17. A system as recited in claim 1, in which the outlet
assembly comprises an outlet cap for dispersing the texture
material as the texture material is dispensed by the system.
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18. A system as recited in claim 1, in which the container

assembly comprises:

a container defining a main chamber;

a housing defining a valve chamber within the main
chamber; and

5 an intake tube that connects the valve chamber with a lower portion
of the main chamber such that propellant material in an
upper portion of the main chamber forces the texture
material out of the main chamber through the intake tube
and the valve chamber.

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